TOWN OF LUNENBURG

BOARD OF SELECTMEN 17 Main Street, P.O. Box 135 Lunenburg MA 01462-0135

Robert H. Bowen, Chairman Thomas A. Alonzo, Vice-Chairman Steven M. deBettencourt, Clerk Daniel W. Cronin, Member Paula Bertram, Member



978-582-4144, FAX 978-582-4148 Office Hours Mon, Wed, Thu. 8:00 AM - 4:00 PM Tues. 8:00 AM - 6:30 PM Fri. 8:00 AM - 12:30 PM

DANIEL M. KEYES, CAFO

Laura Williams Chief of Staff/Chief Admin.Asst.



June 13, 2006

United State Environmental Protection Agency Water Technical Unit PO Box 8127 Boston MA 02114 JUN 14 2005

Gentlemen:

Enclosed is the National Pollutant Discharge Elimination System (NPDES), Phase II Stormwater Management Plan, 2006 Annual Report – Year 3, Lunenburg MA.

If further information is necessary please don't hesitate call.

Sincerely,

Laura Williams

Chief of Staff/Chief Administrative Assistant

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Municipality/Organization:	Town of Lunenburg		
EPA NPDES Permit Number:	1206		
MaDEP Transmittal Number:	W- 040561		
Annual Report Number & Reporting Period:	No. 3: March 05-March 06		

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Daniel M Keyes	Title: CAFO
Telephone #: 978 5824144	dkeyes@lunenburgonline.com Email: 1 williams@lunenburgonline.com
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Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: Signature:	
Printed Name: Danie M. Keyes	
Title: Chief Administrative Financial Officer (CF	AFO)
Date: 6 13 06	

F II. Self-Assessment

The Town of Lunenburg has successfully implemented or begun implementation of several Measurable Goals noted in Lunenburg's Notice of Intent. Prior to the development of Lunenburg's Comprehensive Stormwater Management Program, including Measurable Goals, the Town had an assessment performed of current activities, programs, and regulations that could support the NPDES Phase II Stormwater program. This assessment became the basis for modifying current activities, recommending new programs, and informing town boards and departments of their obligation toward successful implementation of Lunenburg's Comprehensive Stormwater Program.

In July 2005, the Lunenburg Board of Selectmen appointed Daniel Keyes Lunenburg's Chief Administrative and Financial Officer after a two year vacancy in that position. The new CAFO has provided direction and coordination to Lunenburg's stormwater program. Successes in achieving Lunenburg's measurable goals are noted in this report.

Lunenburg is pleased to present the following summary describing Lunenburg's success at implementing the third year of the town's Comprehensive Stormwater Management Program.

F III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
1	Create a Stormwater Program	Department of Public Works Planning Board Conservation Commission Board of Health Board of Selectmen	Lunenburg will present to the public at a public meeting Lunenburg's Comprehensive Stormwater Management Program.	Lunenburg's NPDES Phase II Stormwater program was presented at a multi-department workshop on March 6, 2006 and to the Finance Committee and May 06 Town meeting members.	Lunenburg will continue to identify opportunities to publicly review its stormwater program.
2	Create a Stormwater Program	Board of Selectmen Department of Public Works	Lunenburg will identify appropriate sources of funding assistance (SRF, 319 Grant Program, 604(b) Grant Program, Lakes & Ponds Grant Program, Source Water Protection Grant Program, Recycling Grant Program) and apply for assistance in implementing portions of Lunenburg's Comprehensive Stormwater Management Program, including public education and outreach.	The Town of Lunenburg secured approval from DEP to apply for a \$500,000 low interest State Revolving Fund loan from the Massachusetts Water Pollution Abatement Trust to implement components of Lunenburg's stormwater program, including comprehensive GIS mapping of town infrastructure. The Finance Committee and Town Meeting failed to support this effort.	Lunenburg will continue to identify funding opportunities to support its protection of local bodies of water.
3	Address specific groups	Board of Selectmen Department of Public Works	Distribute EPA and other relevant educational brochures to targeted audiences. Distribution points include Town Hall, Library, and Transfer Station.	The Town is in receipt of EPA educational materials on disc for easy printing and distribution	Brochures will be printed and made available at town buildings.
Revised					

1. Public Education and Outreach Cont.

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3	Planned Activities – Permit Year 4
4	Target groups likely to impact storm water	Board of Selectmen Department of Public Works	Brochures targeting specific audiences and activities will be available. These target groups include homeowner and lawn maintenance activities, disposal of household waste, and pet maintenance.	See BMP 3	See BMP3
5	Identify alternative information sources	Board of Selectmen MIS Department	Lunenburg will post links to stormwater BMPs and other water quality education resources, including EPA and DEP on its website: www.Lunenburg@net1plus.com	www.lunenburg.com	Links to EPA and DEP will be added to website.
6	Identify alternative information sources	Board of Selectmen MIS Department	Lunenburg will also post links on its website to the Nashua River Watershed Association @ www.nashuariverwatershed.org, and the Lake Shirley Improvements Corporation @ www.lakeshirley.com	Lunenburg's website www.lunenburg.com contains links to the following: the Lake Shirley Improvements Corporation, Friends of Willard Brook and Environmental Education for Kids.	Additional links will be reviewed for relevancy.
7	Utilize local website	Board of Selectmen	Public meeting notice for the meeting reviewing Lunenburg's Comprehensive Stormwater Management Program will be posted on Lunenburg's website.	-	Lunenburg will review opportunity to post Power Point presentation of Lunenburg's Stormwater Program.
8 Revised	Develop, conduct and document educational programs	Board of Selectmen Liaison	The Town of Lunenburg will appoint a liaison to the Nashua River Watershed Association, and the Lake Shirley Improvements Corporation to disseminate information to the Town on programs and activities.		Finalize decision of liaison.
Venised	<u> </u>				

1. ablic Education and Outreach Cont.

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3	Planned Activities – Permit Year 4
9	Promote Household Waste Recycling	Department of Public Works Board of Health	The Town of Lunenburg will work with the Town's contracted waste hauler and the Board of Health to continue to promote recycling.	Lunenburg has mandatory recycling. Schedule is posted at www.lunenburg.com	The Town of Lunenburg will continue to promote recycling.
Revised					

2. Public Involvement and Participation

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
10	Storm drain stenciling	Department of Public Works	Lunenburg will work with local lake and Scout groups to develop a stenciling program. Stenciling will target Lunenburg's subwatersheds.	Town wide infrastructure improvements, including sanitary sewer extensions, have delayed stenciling.	Town will identify partners in developing and implementing a storm drain stenciling project.
Revised					
11	Community clean-ups	Department of Public Works Lunenburg Conservation Commission	Town of Lunenburg will encourage local stream team cleanups with local residents and area Scout groups. Town will provide solicitation of sponsors and notice of events on local access channel and website.	Hickory Hills Landowners, Inc. perform regular clean-up and maintenance activities around Hickory Hills Lake. Lunenburg Little League performs spring cleanups of playing fields.	Hickory Hills and Lake Shirley Improvements Corporation will continue cleanups. Expansion of cleanups to include scouts, students, and other civic groups will be welcome.
Revised		, 			
				Local Boy Scouts assist Lunenburg's Conservation Commission in maintaining and improving town owned conservation lands.	

2. ablic Involvement and Participation Cont.

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) — Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
12	Community clean-ups	Department of Public Works	Town will provide trucks and other material to support cleanup efforts and disposal of materials.	Lunenburg Little League organized trash cleanup of town ball-fields, Spring 06. DPW picked up and disposed of collected trash.	Little League performs cleanup every spring.

3. Illicit Discharge Detection and Elimination

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3	Planned Activities – Permit Year 4
13	Inventory and mapping of storm drain system	Department of Public Works	Lunenburg will identify appropriate sources of funding assistance (SRF, 319 Grant Program, 604(b) Grant Program, Lakes & Ponds Grant Program, Source Water Protection Grant Program, Recycling Grant Program) and apply for assistance in implementing portions of Lunenburg's Comprehensive Stormwater Management Program, including public education and outreach.	The Town of Lunenburg secured approval from DEP to apply for a \$500,000 low interest State Revolving Fund loan from the Massachusetts Water Pollution Abatement Trust to implement components of Lunenburg's stormwater program, including comprehensive GIS mapping of town infrastructure. The Finance Committee and Town Meeting failed to support this effort.	Lunenburg will continue to identify funding opportunities to support its protection of local bodies of water.

3. Illicit Discharge Detection and Elimination Cont.

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
14	Mapping and identification of outfalls and receiving waters	Department of Public Works Board of Assessors	Lunenburg will develop and implement a plan to map all outfalls and receiving bodies of water, contingent on Town Meeting approval of funding.	Lunenburg has GPS mapped 556 outfalls in Permit Year 3.	May 06 Town Meeting approved funding to continue Lunenburg's outfall mapping program for Permit Year 4.
15	Identification/description of problem areas	Department of Public Works	Lunenburg will develop and implement an Illicit Discharge Detection and Elimination (IDDE) plan, contingent on Town Meeting approval of funding.	Of the 556 outfalls mapped 172 showed evidence of sediment, one outfall showed sheen, ten outfalls contained vegetated growth, and 40 require follow-up on structural problems.	May 06 Town Meeting approved funding for Permit Year 4 to perform dry weather inspections of outfalls and to follow-up on suspected problems identified in Permit Year 3.
16	Enforcement procedures addressing illicit discharges	Planning Board Town Counsel Board of Health	Lunenburg will review whether local authority is appropriate and able to respond to potential illicit discharges. New by-laws, if necessary, will be proposed to Town Meeting.	This requirement was reviewed at a Lunenburg Stormwater Workshop held on March 6, 2006.	Lunenburg will review whether local authority is appropriate and able to respond to potential illicit discharges. New by-laws, if necessary, will be proposed to Town Meeting.
17	Public information program regarding hazardous wastes and dumping	Department of Public Works Board of Health	Lunenburg will provide educational brochures to residents promoting proper disposal of household hazardous wastes and conditions for regional collections.	Lunenburg's website contains information regarding separation of trash and schedule for collections. Brochures on recycling and hazardous waste collection days are available at Town Hall.	Continue to maintain web info — develop brochures or handouts.
Revised					

3 licit Discharge Detection and Elimination Cont.

BMP	BMP Description	Responsible	Measurable Goal(s)	Progress on Goal(s) -	Planned Activities –
ID#		Dept./Person	1720usurusio Gour(s)	Permit Year 3	Permit Year 4
12 "		Name		(Reliance on non-municipal partners	Termit Tear 4
		- Traine		indicated, if any)	
18	Initiation of recycling	Planning Board	Lunenburg will apply	The Town of Lunenburg received \$420	The Town of Lunenburg will apply
1.0	programs	Board of Health	for funding assistance	for the purchase of 1—set-out	for assistance from 2006/2007
	brograms	Bourd of frontin	from DEP's Recycling	containers.	program.
			Grant Program for	containers.	program.
			assistance in public		
			education and the		
			purchase of recycling		
			materials.		
19	Watershed assessments	Department of	Lunenburg will	The Town of Lunenburg received	Lunenburg will continue to identify
1	and studies	Public Works	identify opportunities	\$87,370 for Lake Shirley LID from the	funding opportunities to support its
	and statios	Conservation	for funding assistance	FFY2006 c.319 Nonpoint Source	protection of local bodies of water.
		Commission	from DEP's 604(b)	Competitive Grants Program.	protection of local bodies of water.
		Board of Health	and 319 grant	Competitive Grants i rogram.	
		Dourd of Houses	programs and the		
	_		Department of	. · ·	
		1	environmental		
			Management's Lakes		
			and Ponds Grant		
			Program to support		
			watershed assessment		
			and implementation	l to:	
			activities. Tasks can	: 100	
			include design and		
			installation of		
			stormwater BMPs and	e .	
		}	public outreach		
			including storm drain		
			stenciling. Emphasis		
			will be on assessments		
			and remediation of		
			stormwater related		
			problems.		

3. Aicit Discharge Detection and Elimination Cont.

BMP	BMP Description	Responsible	Measurable Goal(s)	Progress on Goal(s) -	Planned Activities –
ID#	1	Dept./Person		Permit Year 3	Permit Year 4
		Name		(Reliance on non-municipal partners	
				indicated, if any)	
20	Watershed assessments	Department of	The Town of	DEP's Source Water Protection Grant	Lunenburg will continue to identify
	and studies	Public Works	Lunenburg will apply	Program unavailable in third permit	opportunities for funding assistance
		Water	for funding assistance	year.	to protect local drinking water
		Department	from DEP's Source		supplies.
			Water Protection	Lunenburg has received notification of	
			Program for grant	grant/loan assistance from USDA's	
			assistance to develop	Rural Utilities Services to improve	
			wellhead protection	drinking water and wastewater services	
			plans and stormwater	at Meadow Woods Mobile Home Park.	
			management plans	Current conditions at the facility	
			within Zones II in	require residents to import bottled	
			Lunenburg.	drinking water. Failure of septic	
				systems causes routine breakouts.	
				Tight tank requires pump-out several	
			<u> </u>	times a month.	

4. Construction Site Stormwater Runoff Control

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
21	Bylaw: Storm water management regulations for construction sites 1 acre or larger	Planning Board Conservation Commission Town Counsel Board of Health Zoning Board of Appeals	Lunenburg will review model by-law developed by DEP in consultation with the Attorney General's Office.	This requirement was reviewed at a Lunenburg Stormwater Workshop held on March 6, 2006. Lunenburg Planning Board is working on achieving a 40R status for a Smart Growth District. Lunenburg Planning Board is currently reviewing Lunenburg's Master Plan.	Through the Board of Selectmen's Office, a multi-department work session will be scheduled to review requirements of Lunenburg's Comprehensive Stormwater Management Program, including new by-laws and regulations.

5 st-Construction Stormwater Management in New Devel nent and Redevelopment

BMP	BMP Description	Responsible	Measurable Goal(s)	Progress on Goal(s) -	Planned Activities –
ID#		Dept./Person		Permit Year 3	Permit Year 4
		Name		(Reliance on non-municipal partners	
				indicated, if any)	
22	Bylaw: Require post-	Planning Board	Lunenburg will review	This requirement was reviewed at a	Through the Board of Selectmen's
	construction runoff	Conservation	model by-law	Lunenburg Stormwater Workshop held	Office, a multi-department work
	controls	Commission	developed by DEP in	on March 6, 2006.	session will be scheduled to review
		Town Counsel	consultation with the		requirements of Lunenburg's
		Board of Health	Attorney General's		Comprehensive Stormwater
		Zoning Board	Office.		Management Program, including new
[of Appeals			by-laws and regulations.

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
23	Develop a municipal Operations and Maintenance Plan	Department of Public Works	Using regulations and recommendations from DEP and EPA, Lunenburg will develop and update an operations and maintenance plan to include proper disposal of street sweepings, catchbasin cleanout, snow disposal, roadway deicing procedures, vehicle washing, and outside storage of materials.	Lunenburg has adopted a Stormwater Pollution Prevention Plan (SWPPP) for its highway facilities. Plan includes BMPs for reference by all public works employees.	Lunenburg follows DEP and EPA guidelines.
Revised					

6. ollution Prevention and Good Housekeeping in Municipa perations Cont.

		Ollution Prevention and Good Housekeeping in Municipa perations Cont.					
BMP	BMP Description	Responsible	Measurable Goal(s)	Progress on Goal(s) –	Planned Activities –		
ID#		Dept./Person		Permit Year 3	Permit Year 4		
		Name		(Reliance on non-municipal partners			
				indicated, if any)			
24	Develop a Municipal	Department of	Lunenburg will	Lunenburg DPW has purchased a truck	Lunenburg will routinely cleanout		
Ì	Operations and	Public Works	implement a formal	to perform catchbasin cleanouts.	catchbasins. Structural conditions or		
	Maintenance Plan		inspection program,		suspected illicit discharges will be		
			including maintenance	In Permit Year 3 the DPW repaired	noted for future follow-up or		
			logs and scheduling,	several culverts and catchbasins.	maintenance.		
			for catchbasin				
			cleaning, repairs, and				
			new installation.				
25	Develop and implement	Department of	Lunenburg will send a	Educational literature available at DPW	Town will strive to send employees		
	training programs for	Public Works	minimum of 3 public	headquarters.	to relevant seminars and forums.		
	municipal employees		works employees				
			annually to training				
			seminars sponsored by				
			MassHighway,				
			BayState Roads, and				
			other relevant agencies				
			or vendors.				
26	Review storm drainage	Department of	Lunenburg will	Roadway improvements in Permit Year	The DPW FY07 budget includes		
	infrastructure needs	Public Works	incorporate storm	3 included installation and repairs of	funds for inspection and		
			drain infrastructure	roadway drainage systems.	improvements of storm drain		
			review in Lunenburg's		infrastructure.		
			Chapter 90 project	•			
			utilizations.				
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7. APs for Meeting Total Maximum Daily Load (TMDL) We Load Allocations (WLA) - NOT APPLICABLE

BMP	BMP Description	Responsible	Measurable Goal(s)	Progress on Goal(s) –	Planned Activities –
ID#	_	Dept./Person		Permit Year 3	Permit Year 4
		Name		(Reliance on non-municipal partners	
				indicated, if any)	
				No TMDLs in the Town of Lunenburg	
				_	
Revised					

7a. Additions

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7b. WLA Assessment

IV. Summary of Information Collected and Analyzed

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	N
Annual program budget/expenditures	\$25,000

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)
Stormwater management committee established	(y/n)
Stream teams established or supported	(# or y/n)
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)
Household Hazardous Waste Collection Days	
 days sponsored 	(#)
community participation	(%)
material collected	(tons or gal)
School curricula implemented	(y/n)

Legal/Regulatory

	In Place Prior to	Under		
	Phase II	Review	Drafted	Adopted
Regulatory Mechanism Status (indicate with "X")				
Illicit Discharge Detection & Elimination				
■ Erosion & Sediment Control				
Post-Development Stormwater Management				
Accompanying Regulation Status (indicate with "X")				
Illicit Discharge Detection & Elimination				
Erosion & Sediment Control				
Post-Development Stormwater Management				

Mapping and Illicit Discharges

Outfall mapping complete	(%)
Estimated or actual number of outfalls	556
System-Wide mapping complete	100 %\
Mapping method(s)	
Paper/Mylar	(%)
■ CADD	(%)
• GIS	100 %
Outfalls inspected/screened	(# or %)
Illicit discharges identified	(#)
Illicit connections removed	(#)
	(est. gpd)
% of population on sewer	(%)
% of population on septic systems	(%)

C struction

Number of construction starts (>1-acre)	(#)	
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	
Site inspections completed	(# or %)	
Tickets/Stop work orders issued	(# or %)	
Fines collected	(# and \$)	
Complaints/concerns received from public	(#)	

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post- construction stormwater control	(%)	
Site inspections completed	(# or %)	
Estimated volume of stormwater recharged	(gpy)	

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	
Total number of structures cleaned	(#)	
Storm drain cleaned	(LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		
Cost of screenings disposal	(\$)	

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Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	ŀ

A age frequency of street sweeping (commercial/arterial or oth ritical streets)	(times/yr)
Qty. of sand/debris collected by sweeping	(lbs. or tons)
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)
Cost of sweepings disposal	(\$)
Vacuum street sweepers purchased/leased	(#)
Vacuum street sweepers specified in contracts	(y/n)
D 1 (' ' 1' 1' 1 1 1 6 (97/A)	
Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)	(11, 0/)
• Fertilizers	(lbs. or %)
Herbicides	(lbs. or %)
Pesticides	(lbs. or %)
Anti-/De-Icing products and ratios	% NaCl
	% CaCl ₂
	% MgCl ₂ % CMA
	% CMA % Kac
	% Kac % KCl
	% KCl % Sand
	(y/n)
Pre-wetting techniques utilized	(y/n) (y/n)
Manual control spreaders used	
Automatic or Zero-velocity spreaders used	(lbg or 9/)
Estimated net reduction in typical year salt application	(lbs. or %)
Salt pile(s) covered in storage shed(s)	(y/n)
Storage shed(s) in design or under construction	(y/n)